

Message

From: Swain, Ed (MPCA) [edward.swain@state.mn.us]
Sent: 4/21/2017 4:08:25 PM
To: Marko, Katharine [Marko.Katharine@epa.gov]; Pfeifer, David [pfeifer.david@epa.gov]
CC: Streitz, Andrew (MPCA) [andrew.streitz@state.mn.us]; Neuschler, Catherine (MPCA) [catherine.neuschler@state.mn.us]
Subject: Crystal Ng and regional groundwater model in MN
Attachments: Yourd 2017 Using reactive transport modeling to link hydrologic flux and root zone geochemistry at Second Creek. MS THESIS.pdf

Katie,

On today's conference call, you said that you had heard something about a proposal to develop a regional groundwater model for northeastern Minnesota, which could be useful for understanding the interaction of surface water sulfate with porewater sulfide.

I believe that Andrew Streitz, a groundwater expert in our Duluth office, knows about this proposal, which would be a collaboration with USGS. Andrew mentioned to me that it may involve Crystal Ng, professor of hydrogeology on the Twin Cities campus, who had a student (Amanda Yourd) investigate Second Creek (with help from Andrew). You can learn more about Crystal, who has been very helpful to us, at <https://www.esci.umn.edu/people/Gene-Hua-Crystal-Ng>

I attach a copy of Amanda's master's thesis (a manuscript has been submitted to a journal). I know that Crystal is seeking funds to further investigate Second Creek.

For further information about the regional groundwater model, you could either email Andrew or give him a call at 218-302-6617, although he is out of the office today.

-Ed

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